Purge Pro®

Operation & Instruction Manual

PP-150 {1.5hp}

PP-200 {2hp}

WARNING

Safety Considerations

Servicing of closed loop piping systems should be performed by trained & qualified service personnel only. Proper precautions should be taken to minimize the risk of electrical shock during purging. Wear safety glasses and work gloves. When storing and transporting antifreeze solutions for closed loop piping systems follow all manufactures recommendations and government regulations for safe handling of the product. Failure to do so could result in personal injury, property damage, or noncompliance with local, state and federal regulations.

Moving and Storage

When receiving the purging system, all items should be carefully checked against the packing list to be sure cartons have been received. Examine unit for possible shipping damage, removing the unit from its packaging if necessary. If any damage is noted, Freight Company should be notified and a claim should be filed. Transport the purging system in its normal "vertical" position & secure cart to prevent damage caused by excessive movement. The tank must be drained after each use to prevent damage to the rubber seals of the pump. Store purging system in a location that will not be subject to freezing temperatures.

The Warnings, Cautions and Instructions discussed in this Operating Manual cannot cover ALL possible conditions or situations that could occur. It must be understood by the Operator that Common Sense and Caution are factors which cannot be built into this product, but must be supplied by the Operator.

Electrical Supply

Supply a single 20 amp, 120 volt circuit to the purging system. When using an extension cord to supply power, do not exceed the manufacturers rated capacity of the cord.

Additional Components

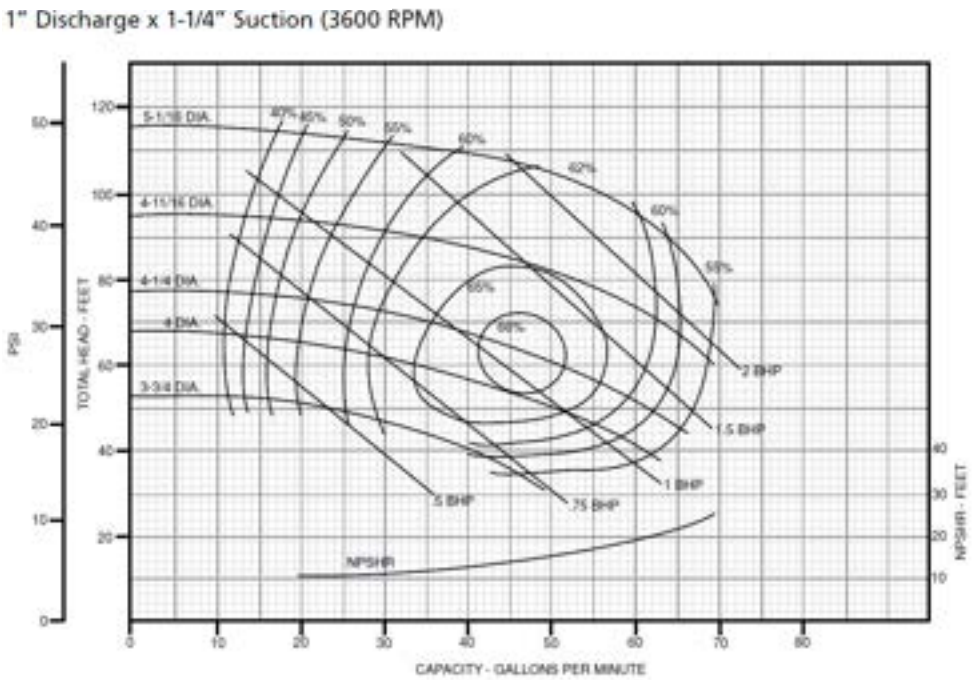
Varies per Model #

PP-150

2 - 1.00" F Coupler
2 - 10' x 1.00" Hoses
2 - Micron Filters

PP-200

2 - 1.25" x 1.00" Quick Connect Coupler
2 - 10' x 1.25" Hoses
2 - Micron Filters



Operating Instructions

1. Apply thread sealant tape or compound to the 1.00" male F-Couplers and install on the fill and flush ports located on the flow center.
2. Connect hoses to adapters on the fill and flush ports of the flow center. Position purging system and connect hoses to supply and return water connections.
3. Fill the tank on the flush cart with water so that the water level is even with the top of the Micron filter.
4. Connect the power supply of the purging system to a 20 amp 120 volt circuit.
5. Open the valves on the fill and flush ports of the flow center.
6. Open the supply and return ball valves on the purging system.
7. Energize the pump. Caution: Water must be continuously supplied to the purging system tank to prevent the pump from being run dry. Do not overflow purging system tank.
   If Airlock occurs in the pump with no water flow, open the 1/8" ball valve located on the bottom of the pump until water pours out and pump begins to flow water, then close ball valve
8. Once return water flow from the loop piping has been established, discontinue the addition of supply water to the purging system tank and maintain a water level that is even with the micron filter as necessary.
   Note: To check the system for proper purging, close the return water ball valve on the flush cart, being careful to observe the water level in the tank. The water level should not drop more than 1"-2". If the water level dropped more than 1"- 2", all of the air has not been removed from the system.
9. To add Antifreeze, Shut down pump.
10. Close return ball valve and then Connect water hose (not supplied) to broiler drain. Run water hose to nearby drain. Remove Micron filter from purging system.
11. Energize the pump and Open boiler drain. **Note:** Observe the water level in the purging system tank while pumping out water to a level of 6" - 12" from bottom of tank.
12. Close boiler drain and Shut down pump.
13. Add Antifreeze to purging system tank.
14. Energize the pump and Open boiler drain. **Note:** Keep adding Antifreeze to required amount.
15. After Antifreeze inducement is complete, Close boiler drain and shut down pump.
16. Reinstall Micron filter and Fill tank with water.
17. Energize pump. Open return ball valve and recirculate water and antifreeze for a minimum of 10-15 minutes.
18. Connect Pressure Gauge (not supplied) to P/T port on supply. Close return ball valve & build pressure to desired psi.
19. Close supply ball valve and Shut down pump.
20. Set valves on flow center for Heat Pump operation.